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STATE OF COLORADO



1954

ANNUAL REPORT



COAL MINE INSPECTION DEPARTMENT

STATE OF COLORADO



1954



ANNUAL REPORT

COAL MINE INSPECTION DEPARTMENT

P E R S O N N E L O F D E P A R T M E N T

CHIEF INSPECTOR - THOMAS ALLEN

Tel. -KEystone 4-8054

1221 Washington Street, Denver 3

DEPUTY INSPECTORS - Counties within each district

Dist. #1 - Finlay McCallum, 4635 Eliot Street, Denver 11
Boulder, El Paso, Jackson, Jefferson, Moffat,
Rio Blanco, Routt and Weld

Dist. #2 - George H. Smith, 1110 Macon Street, Canon City
Fremont, Gunnison (Crested Butte area), Huerfano and
Las Animas

Dist. #3 - John J. Roddy, 1404 White Avenue, Grand Junction
Archuleta, Delta, Garfield, Gunnison (Somerset area),
La Plata, Mesa, Montezuma, Montrose, Pitkin and
San Miguel

GENERAL OFFICE

Administrative Assistant, Veda Burford, 1610 Magnolia, Denver 20

Account Clerk, Evelyn Miller, 3915 Xavier Street, Denver 12

Clerk-Stenographer, Rose Maxine Canaday, Erie

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Fred W. Whiteside, EM, 356 Lafayette Street, Denver

Henry A. Coll, Glenwood Springs

Tony Guadagnoli, 19 East 2nd Street, Colorado Springs

Otto Serroni, 633 - 3rd Avenue, Durango

OFFICE ADDRESS AND TELEPHONE:

Argonaut Hotel, Denver 2

KEystone 4-6485

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LETTER OF TRANSMITTAL

April 1, 1955

To His Excellency
EDWIN C. JOHNSON
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Department of Colorado, for the year ending December 31, 1954.

Respectfully,

THOMAS ALLEN
Chief Inspector of Coal Mines



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INTRODUCTORY REMARKS BY CHIEF INSPECTOR

Colorado produced less coal in 1954 than in any year since 1889 as shown in the 81-year chart within this publication. The decrease over 1953 is comparable to the general decrease in other coal producing states, but regardless of replacements of coal, it is feasible to anticipate a marked increase within the next few years by the development of new industrial plants dependent on coal.

Numerous reports have been prepared during the past year on requested information in various coal fields in Colorado with the hope that it may assist in the location of plant sites within our state. As there is no State Department of Geology or Technical Research, it has required much preparation which will be retained within the permanent files of this department.

In 1954, the 158 coal mines in Colorado employed 2,878 men an average of 154.8 days per mine, with a daily production of 6.6 tons per miner. The year closed with a total of 3 fatal accidents and 86 non-fatal injuries, showing an improvement in the safety record of all coal mines in the state. The fatality rate per million man-hours worked was 0.84 in Colorado coal mines during 1954; the rate of all coal mines in the nation was 1.01 for the same period. On a production basis, Colorado - 1.02 million tons of coal per fatality compared to 0.94 for all coal mines in the United States.

Of the production of 2,922,365 tons of coal, about 59% was mechanically mined and loaded and 8% electrically undercut but hand-loaded onto mechanical devices. There are 50 mines in which no machinery is used, most of which are small operations.

Coal in this state is mined under an outstanding variance in geological formation, working level to vertical seams ranging from two to sixty feet in thickness. About 25% of the operating mines are classified as gaseous.

Mine Fires: Reoccurrences at three mines, the New Castle and Sunlight in Garfield County which resulted in sealing the affected areas, and the old Streeter in Moffat County which was immediately re-sealed. The Hi-Way Mine in Boulder County was abandoned and permanently sealed due to a tippie fire which completely destroyed the hoisting shaft.

Gas Inflow: Oliver #2 Mine in Gunnison County, permanently sealed in October due to an excessive inflow of gas released by a heavy bump which endangered further operation. All equipment was recovered under the supervision of this department.

Ignition of explosive gas at the I.H.I. Mine #3 in Garfield County in April partially burned two men when a gas feeder was tapped while they were drilling boreholes with an electric drill.

The State Historical Department has completed microfilms of the annual reports of this department from 1882 through 1953, which will be permanently filed in the State Archives. The History Books showing the complete available record of each mine known to operate in Colorado will be filmed within the coming year. The valuable records will be preserved in fireproof files.

During 1954 the U.S. Bureau of Mines trained 1,607 persons in First Aid, 15 in Mine Rescue and 54 supervisors in Accident Prevention. There are 10 active chapters of the Holmes Association: The Allen, Frederick and Morley mines in Las Animas County; the Harris, Hayden Valley, Keystone, Oak Hills and Osage Strip Chapters in Routt County; the Hi-Coal Chapter in Moffat County; and the Frank Yandall Chapter at Glenwood Springs.

Special attention is called to the safety record of the Boulder Valley #3 and Baum mines, now connected as one mine, which operated through the year year with no lost-time accidents; and to the Red Wing, the Osage and Edna Strip mines, all of which appear on the Honor Roll.

HONOR ROLL FOR 1954
50,000 or more man-hours per injury.

<u>Name of Mine</u>	<u>Company</u>	<u>County</u>	<u>Fatals</u>	<u>Non-Fatals</u>	<u>Man Hours Per Injury</u>
Frederick	C F & I Corp.	Las A.	0	5	146,968
B. Val. #3/Baum	Boulder Valley	Weld	0	0	105,399
Morley	C F & I Corp.	Las A.	1	4	99,656
Allen	C F & I Corp.	Las A.	0	6	79,318

40,000 to 50,000 man-hours per injury.

Red Wing	Colowyo Coal	Moffat	0	0	49,418
Osage Strip	Osage Coal	Routt	0	0	48,163
Edna Strip	Edna Coal	Routt	0	0	42,514

The field force of three inspectors, in addition to checking mines for compliance with recommendations made, the investigation of special conditions, mine fires and other recovery work, completed the year with the required number of inspections at operating mines.

SUMMARY OF FIELD WORK

Number of inspections	638
Investigations of fatal accidents	5
Coroner's inquests attended	3
Complaints investigated	18
Prosecutions	2
Mines closed for violations	15
Safety meetings attended	31
First Aid and Educational classes attended	19
Examinations for Shot Firers	58

FINANCIAL STATEMENT FOR THE CALENDAR YEAR

RECEIPTS

Balance on hand January 1, 1954		\$ 4,105.27
Coal Tax & License Fees	\$ 27,446.82	
Sale of car and equipment	759.25	
Coal Mining Law Books sold	30.50	
Appropriation from General Fund	15,000.00	
Total	\$ 43,236.57	43,236.57
		<u>\$47,341.84</u>

EXPENDITURES

Salaries - Field & Office	\$ 33,508.63	
Travel - Hotels, Meals, Gas, etc.	5,541.60	
Rent - Field & Office	2,926.50	
Telephone, Telegraph, Postage	1,326.98	
Office Supplies and Equipment	497.56	
Insurance on Cars and Surety Bonds	203.03	
Cleaning and Equipment Repairs	110.89	
Printing and Multigraphing	70.05	
Misc. Investigation, Haulage	19.50	
Total	\$ 44,204.74	44,204.74
Balance on hand January 1, 1955		<u>\$ 3,137.10</u>

We fully appreciate the cooperation of the various State and Federal departments, the coal mine operators and officials, and the United Mine Workers of America; and the able assistance of the Attorney General in matters of litigation or opinions rendered.

THOMAS ALLEN, Chief Coal Mine Inspector

GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1954

MINES REPORTING PRODUCTION - Underground - 150 Strip Pits - 8 158
2,922,365

PRODUCTION IN SHORT TONS

GRADES	SIZES			
	434	Mine Run	351,168	Pea
Anthracite				87,032
Bituminous	2,294,926	Lump	254,962	Slack
Sub-Bituminous	638,840	Nut	128,768	Miscellaneous
		Egg	173,496	68,643

TONNAGE BY MINING METHODS

<u>MINED</u>	- Electric undercutting machines	1,866,202
	Solid pick	578,374
<u>LOADED</u>	- Mechanically, using no or very little hand labor	1,563,501
	Hand-loaded onto mechanical loaders	318,247
	Hand-loaded into pit cars	562,828
<u>CUT AND LOADED BY CONTINUOUS MINING MACHINES</u>		180,520
<u>STRIPPED - OPEN PITS</u>		297,269

SHIPMENT AND DISPOSAL

Shipped by rail	2,012,416	Shipped out of the state	369,121
Shipped by truck	867,525	Locally or power & heat at mines	42,424

MEN EMPLOYED (Average number) Underground-2,248.7 Surface-530.1 Strips - 99.2 2,878
DAILY PRODUCTION PER MINER 6.6
DAYS WORKED (Average number per mine) 154.8

UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See Pages 28, 29

<u>MINING MACHINERY - Electric:</u>	Undercutting	330	3
	Combination	11	335
	Drills	81	

<u>MECHANICAL LOADERS - Shakers</u>	Compressed air:	186	23
	Mobile	44	36
	Power shovels	1	11
	Mainline conveyors		5
	Chain conveyors		
	Portable conveyors		

CONTINUOUS MINING MACHINES - Undercutting & loading

HAULAGE MACHINERY - Locomotives: Electric trolley - 114 Electric battery 68
 Hoists: Electric 118 Compressed air 1
 Shuttle cars: 61

LAMPS: Flame safety - 554 Electric cap - 4,770

STRIP MACHINERY & EQUIPMENT

Bulldozers	10	Drag lines	2	Power shovels	4
Carryalls	3	Drills	6	Scarifiers	4
Caterpillars	3	Jack hammers	9	Tractors	6
Compressors	4	Loaders	2	Trucks	18

EXPLOSIVES(Pounds)

	Permissible	Dynamite	Cardox	Airdox
Underground mines	495,597	4,050	29 mines	1 mine
Strip mines	10,600	198,555		
	506,197	202,605	608,725	

1,317,527

SURFACE & MISCELLANEOUS

Hoists: Gas	28	Steam	7	Electric	76
Tipples: Gravity	66	Mechanical	83		111
Ventilation fans: Exhaust	88	Force	36		149
Coal washing plants	7	Steam plants	25	Box car loaders	124
Pumps: Electric	248	Compressed air	20	Bath houses & showers	58
Air compressors: Underground	24	Surface	19	Rock dusting machines	549
Telephones	229			Battery charging stations	43
					52

SAFETY EQUIPMENT: Self-rescuers -250 Oxygen breathing apparatus(McCaa&Chemox) 48

GENERAL INFORMATION

Shaft mines - 10	Rock slopes	27	Rock tunnels - 17	Drifts	95
Number of mines: On railroads		35	Roof-bolted		11
Tons of coal chemically treated		178,865	Tons of washed coal		13,965

D I R E C T O R Y

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Annex Coal	Florence	Annex	Same	Fre.
Aztec Fuel	Walsenburg	Caddell #2	"	Huerfano
Baldy Coal	Trinidad	Baldy	"	Las A.
Barnell, Geo. M.	Walden	Marr	"	Jackson
Bear Canon Coal	Trinidad	Bear Canon #6	Vallorso	Las A.
Bear Coal	Somerset	Bear	Same	Gunn.
Beer Coal & Const.	Florence	Beer Strip	"	Fre.
Bellino, Frank	Pagosa Springs	Bellino	"	Arch.
Bendetti, Henry	Glenwood Spgs.	Atlas #2	"	Garfield
Berwind Mining	Weston	Melonas	"	Las A.
Berwind Canon Coal	Trinidad	Berwind Canon	"	Las A.
Bisulco, Alex	Aguilar	Bisulco	"	" "
Bisulco, Alex	"	New Primrose	"	" "
Black Beauty Coal	Walsenburg	Black Beauty	"	Huerfano
Black Diamond Fuel	Lafayette	Black Diam. #2	"	Boulder
Black Knight Coal	Florence	Black Knight #2	Same	Fre.
Block Coal	Steamboat Spgs.	Block #2	"	"
Blue Blaze Coal	Walsenburg	Blue Blaze	"	Huerfano
Blue Ribbon Coal	Cedaredge	Blue Ribbon	"	Delta
Boscia Coal	Oak Creek	Apex	"	Routt
Boulder Valley Coal	Denver	Bo. Val. #3-Baum	Dacono	Weld
Brodhead Coal	Trinidad	Brodhead #2	Same	Las A.
Brooks, Ira T.	Cedaredge	Green Valley#2	"	Delta
C. F. & I. Corp.	Denver	Allen-E. Portal	Weston	Las A.
C. F. & I. Corp.	"	Allen-W. "	"	" "
C. F. & I. Corp.	Denver	Frederick	Valdez	Las A.
C. F. & I. Corp.	"	Morley	Morley	" "
Caldirola Fuel	Canon City	Caldirola #2	Same	Fre.
Canon Blk. Diam. Coal	Florence	Can. Blk. Diam.	"	"
Canon Chief Mining	Canon City	Canon Chief	"	"

RAILROADS - OPENINGS - SEAMS - PRODUCTION

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM			TONS
			Shaft	Rock	Rock/Drift	Tunnel	Ft-In/Pitch			
			Depth	Slope	Length		% - °			
Nickie Rocchio	-	17	-	-	-	x	5	6	4 ⁰	3,794
Ygnacio Ruiz	-	5	-	-	-	0	4	10	4 ⁰	500
E. W. Meggison	-	40	-	200	-	0	5		-	7,603
Geo. M. Barnell	-	20	-	-	-	0	60		45 ⁰	2,267
Charles Beuchat	C&S	200	-	-	-	x	6		1½%	104
Tony Bear	D&RG	475	-	-	300	0	8		4%	48,066
Lloyd J. Beer	-	100	S T R I P				3	6	6%	3,355
Frank Bellino	-	3	-	-	-	x	3	4	2 ⁰	76
H. Bendetti	-	10	-	-	-	x	5		50%	83
John Lovato	C&S	20	-	144	-	0	4	10	7%	53
J. P. McIlwee	-	15	-	-	-	x	4		8 ⁰	1,670
Alex Bisulco	-	6	-	-	-	x	4		6%	411
Alex Bisulco	-	4	-	-	-	x	3		6%	72
Steve Tellari	-	7	-	-	100	x	3	9	4%	1,466
Charles Liley	-	150	268	-	-	0	6		-	9,131
C. Alvidrez	-	4	-	-	-	x	3		3 ⁰	899
Irene Gould	-	5	-	-	-	x	7		5 ⁰	212
A. Amiday, Sr.	-	25	-	-	-	x	3	6	5%	1,876
Neil Jones	-	50	-	-	-	0	6		6 ⁰	4,943
A. Boscia	-	10	-	-	-	x	4	6	6%	1,046
Thomas Harris	UP	1,300	240	-	-	0	7		-	102,953
Sam Vasquez	-	25	-	-	-	x	3	6	12%	3,021
Ira T. Brooks	-	50	-	150	-	0	6		4%	5,438
L. W. Ingles	C&W	3,000)	-	1,578	-	0	5		2-30%)	396,994
L. W. Ingles)	-	-	-	x	5		2-30%)	
F. C. Bennett	C&W	2,300	-	-	-	x	3	6	-	312,943
J. W. Bodycomb	ATSF	800	-	-	-	x	5		2%	124,612
Tony Mangino	-	50	-	480	-	0	4	6	3%	5,332
Frank Yellico	-	75	-	-	-	x	6	7	6%	17,949
Louis Dussart	-	50	-	200	-	0	6		3%	8,663

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Canon Monarch Coal	Florence	Pine Gulch #3	Same	Fre.
Canon National Coal	"	Canon National	"	"
Canon Zenith Coal	"	Canon Zenith	"	"
Carbon Fuel	Trinidad	Anchor #2	"	Las A.
Cason, Vernon	Durango	Blue Flame	"	La P.
Champion Coal Mng.	Somerset	Hawk's Nest	Same	Gunn.
Chandler Coal	Canon City	Chandler #2	"	Fre.
Chandler Crk. Coal	Florence	Chandler Creek	"	"
Cimino, Nick	Trinidad	Starkville #7	"	Las A.
Clark Coal	Somerset	Edwards	"	Gunn.
Clarke Coal	Palisade	Winger	Same	Mesa
Clayton Coal	Denver	Lincoln	Erie	Weld
Clayton Coal	"	Washington	"	"
Coal Creek Can. Mng.	Florence	Coal Creek Can.	Same	Fre.
Coles, W. E.	New Castle	New Castle	"	Garfield
Colo. & Utah Coal	Denver	Harris	Mt. Harris	Routt
Colowyo Coal	"	Red Wing	Axial	Moffat
Commander, The	"	Commander Strip	Hayden	Routt
Conda, Leonard R.	Boulder	New Gorham	Superior	Boulder
Corley Co., The	Colorado Spgs.	Corley #6	Florence	Fre.
Corley Co., The	Colorado Spgs.	Pioneer Strip	Florence	Fre.
Crane, LeRoy R.	Bayfield	Columbine	Same	Arch.
Delcarbon Coal	Walsenburg	Calumet #2	"	Huerf.
Double Dick Coal	Florence	Double Dick	"	Fre.
Dry Creek Coal	Hayden	Crow Bar	"	Routt
Dunn Coal	Oak Creek	Keystone	Same	Routt
Dunn Coal	" "	Moffat-A	"	"
Dunn Coal	" "	Moffat-B Strip	"	"
Dunn Coal	" "	Seven Pt. Strip	"	"
Eaglehead Coal	Grand Junction	McGinley	"	Mesa

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		TONS	
			Shaft	Rock	Rock/Drift	Ft-In/Pitch				
			Depth	Slope	Tunnel					
			Length					% - °		
Lloyd J. Beer	-	50	-	-	-	x	4	6	4 ⁰	1,872
Raymond Jermance	-	100	-	375	-	0	5		7 ⁰	18,664
Nick J. Moschetti	-	15	-	-	-	x	3	2	5 ⁰	1,770
Joe M. Garcia	-	10	-	-	-	x	5		6 ⁰	917
Vernon Cason	-	15	-	-	20	0	6	6	8%	2,576
Ralph Audin	-	350	-	300	-	0	8		2 ⁰	50,140
Chas. Silengo	-	16	-	650	-	0	3		4%	1,654
Pete Bettelli	-	25	-	300	-	0	3	8	5%	3,349
Nick Cimino	-	8	-	-	-	x	4		-	578
Ira Cordray	D&RG	106	-	-	-	x	7		-	12,529
R. M. Clarke	-	7	-	-	-	x	4	6	5%	563
W. D. Ferguson	UP	2,000	-	1,800	-	0	10		-	54,739
John Stevens	UP	1,500	430	-	-	0	10		-	143,549
Felix DelMonte	-	35	-	700	50	0	5		6%	4,857
W. E. Davis	-	50	-	-	400	0	42		48 ⁰	1,509
Louis La Salle	D&RG	1,500	-	200	300	0	9	3	18%	86,698
Ernest Todd	-	600	-	125	-	0	23		2%	85,683
Louis Ciani	-	10		S T R I P			13		4 ⁰	400
Leonard Conda	-	10	-	-	-	0	5	6	27%	631
Paul Brenton	ATSF	500	-	500	-	0	4		8%	24,243
Paul Brenton	ATSF	150		S T R I P			6		8%	11,354
LeRoy R. Crane	-	2	-	-	-	x	12		50 ⁰	496
George Sudar	D&RG	300	-	600	-	0	5	6	-	15,870
Joe Rohar	-	100	-	-	-	x	5	6	-	11,889
Tony Amedei	-	250	-	300	-	0	8		12 ⁰	24,110
Charles Reese	D&RG	500	-	-	-	x	9		8 ⁰	45,959
Charles Reese	D&RG	500	-	1,900	-	0	6	6	7 ⁰	7,297
Art Rudford	-	350		S T R I P			3	4	6 ⁰	1,836
Art Rudford	-	200		S T R I P			12		2%	3,149
Willard C. Lutz	-	15	-	-	-	x	7		-	2,891

COUNTY	ADDRESS	MINE	ADDRESS	COUNTY
Edna Coal	Denver	Edna Strip	Oak Creek	Routt
Ellis Coal	Somerset	Black Beauty	Same	Gunn.
Fabec, Robert	Trinidad	Aguilar Imperial	"	Las A.
Fogg, Lyndon H.	Cedaredge	Red Canon #1	Same	Delta
Franceville Coal	Colorado Spgs.	Francev. Strip	"	El Paso
Franklin, Leo	Trinidad	Burro Canyon#3	Same	Las A.
Garcia&Mackey	Pagosa Springs	Garcia	Same	Arch.
George, Glenn	La Veta	George	"	Huerf.
Giuliano Coal	Aguilar	Gem	"	Las A.
Giuliano & Sons Coal	Florence	Cedar Canon	"	Fre.
Golden Quality Coal	Florence	Golden Qual. #3	Same	Fre.
Graden Coal	Denver	Graden	Dacono	Weld
Guadagnoli Bros.	Trinidad	Engleville	Same	Las A.
Haas Coal	Rifle	I. H. I. #2	"	Garfield.
Haas Coal	"	I. H. I #3	"	"
Halcumb, Claud O.	Fruita	Hunter	Same	Mesa
Hay Gulch Coal	Hesperus	Hay Gulch #3	"	La P.
Henderson, J. B.	"	Coal King #2	"	" "
Hesperus Coal	"	Hesperus #3	"	" "
Hicks, Ernest	Grand Junction	Hidden Treasure	Fruita	Mesa
Hightchew, Lester	Mancos	La Plata	Same	La P.
Hi-Grade Coal	Florence	Hi-Grade	"	Fre.
Hinkle Coal	Gunnison	Hinkle	"	Gunn.
Hi-Way Coal	Denver	Hi-Way	Lafayette	Boulder
Horace Anth. Miners	Crested Butte	Horace	Same	Gunn.
Imperial Coal	Denver	Eagle	Erie	Weld
Imperial Coal	"	Imperial	"	"
Iuppa, Albert, Jr.	Trinidad	Little Al's	Same	Las A.
Jakovac, Frank	Oak Creek	Frank's	"	Routt
Jenkins & Mathis	Meeker	Rienau	"	Rio B.
Juanita Coal & Coke	Bowie	King	"	Delta

Superintendent	R. R.	Daily Cap.	OPENINGS					SEAM		TONS
			Shaft	Rock	Rock/Drift	Ft-In/Pitch	%			
			Depth	Slope	Tunnel					
			Length							
A. R. Ross	D&RG	1,600	S T R I P					5	6°	127,970
Ellis Axelson	-	50	-	-	65	0	10	6	4%	9,261
Robert Fabec	-	75	-	-	-	x	5	7	5%	1,616
L. H. Fogg	-	30	-	-	-	x	4	6	6%	3,226
Lee Gordley	-	50	S T R I P					8	-	4,519
Leo Franklin	-	5	-	-	-	x	5	6	-	39
Simon B. Garcia	-	3	-	-	-	x	7		20°	28
Glenn George	-	4	-	60	-	0	8		70°	155
L. Giuliano	-	10	-	1600	-	0	3		1%	1,765
M. Giuliano	ATSF	100	-	-	-	x	6		2%	14,333
D. Carestia	-	10	-	-	-	x	3	6	8%	3,430
Al Seip	UP	250	325	-	-	0	6	8	-	21,057
C. Guadagnoli	-	13	-	-	-	x	9		-	2,780
Wm. Haas, Jr.	-	40	-	-	-	x	12		67°	8,774
Wm. Haas, Jr.	-	47	-	650	-	0	9		67°	9,045
C. O. Halcumb	-	8	-	-	300	0	9		5°	804
W. C. Hunt	-	10	-	-	-	x	5	10	3°	1,439
J. B. Henderson	-	3	-	-	45	0	6	6	7°	682
Joe DeLuzio	-	5	-	-	-	x	8	6	1%	104
Ernest Hicks	-	25	-	-	-	x	3		5°	2,137
L. Hightchew	-	3	-	-	-	x	5	10	5°	50
J. R. Ramirez	-	12	-	-	-	x	4		5°	964
James C. Harris	-	8	-	-	-	x	8		8%	446
Frank Yakes, Jr.	CB&Q	150	385	-	-	0	3	6	1½%	3,940
Joe Saya	-	5	-	-	-	x	2	1	5°	434
Frank Kolar	UP	1,500	370	-	-	0	9		1½%	224,437
Frank Kolar	UP	900	300	-	-	0	10	6	-	17,945
A. Iuppa, Jr.	-	5	-	-	-	x	4		-	68
F. Jakovac	-	5	-	-	-	x	8	6	5½%	110
Wm. Jenkins, Jr.	-	35	-	-	-	x	20		18°	5,925
W. D. Bowie	D&RG	200	-	-	-	x	14		7%	19,847

COUNTY	ADDRESS	MINE	ADDRESS	COUNTY
Keck, W. R.	Norwood	Keck-Reliance	Same	San M.
Kerr Coal	Cameo	Cameo	"	Mesa
Leader Coal	Sopris	Leader #2	"	Huerf.
Liberty Mining	Canon City	Canon Liberty	"	Fre.
Lovisone & Colarelli	" "	L. & C. #2	"	"
Major Coal	Walsenburg	Major #2	Same	Huerf.
Marion Coal	Glenwood Spgs.	Marion-Kilroy	"	Garfield
Martinez & Garcia	Cokedale	Martinez	"	Las A.
Mathews, John	Oak Creek	Johnnie's	"	Routt
McNeil Coal Corp.	Denver	Sterling	Dacono	Weld
Minerals' Dev. Corp.	Salt Lake City, U.	Oliver #2	Somerset	Gunn.
Minerals' Dev. Corp.	" " "	" Oliver #3	"	"
Minerals' Dev. Corp.	" " "	" Somerset	"	"
Minoletti Bros.	Durango	Minoletti	Same	La P.
Montez, Manuel H.	Trinidad	Delagua #3½	"	Las A.
Morasky Coal & Blocks	Trinidad	Grey Creek #6	Same	Las A.
Morning Glory Coal	Walsenburg	Morning Glory	"	Huerf.
Nix, Ammon E.	Nucla	Independence	"	Montrs.
Ojo Canon Coal	Walsenburg	Ojo Canon #2	"	Huerf.
Osage Coal	Kansas City, Mo.	Osage Strip	Steam. Spgs.	Routt
Pantazes, Pete	Aguilar	Prosperity #2	Same	Las A.
Paonia Farmers Coal	Paonia	Paonia Farmers	"	Delta
Partch Bros.	Gunnison	Nu-Mine #1	"	Gunn.
Partch Bros.	"	Nu-Mine #2	"	"
Paterson, Mack R.	Fruita	Hy-Grade	"	Mesa
Peacock Coal	Durango	Peacock	Same	La P.
Peacock Coal	Trinidad	Peacock	"	Las A.
Peaks Coal	Walsenburg	Peaks	"	Huerf.
Peerless Coal	Durango	Peerless	"	La P.
Phillips, H. B.	Palisade	Gearhart	"	Mesa

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM			TONS
			Shaft	Rock	Rock/Drift					
			Depth	Slope	Tunnel	Ft-In/Pitch				
				Length				% - °		
W. R. Keck	-	2	-	-	-	x	2	8	1%	56
W. M. Kerr, Jr.	D&RG	75	-	-	500	0	6		7%	17,581
C. Langowski	-	10	-	-	-	x	3	2	6%	1,996
T. J. Smith	-	35	-	-	-	x	3	4	6%	5,429
T. Colarelli	-	25	-	-	-	x	5		8%	3,620
Louis Bellotti	D&RG	75	-	75	-	0	5	5	15%	3,081
S. R. Cochran	-	5	-	-	-	x	5		40°	1,350
A. Martinez	-	2	-	-	10	x	2		-	12
John Mathews	-	5	-	-	-	x	4	2	4°	496
A. W. Newcomb	UP	550	358	-	-	0	7	11	-	55,710
Carl E. Smith	D&RG	600	-	-	100	0	7		6%	12,829
Carl E. Smith	D&RG	300	-	-	100	0	7		6%	22,876
Wm. O. Luoma	D&RG	1,000	-	-	-	0	9		6%	88,198
Joe Minoletti	-	20	-	-	-	x	5	6	6%	3,368
M. H. Montez	-	3	-	-	-	x	8		-	102
J. F. Morasky	-	22	-	-	-	x	2	8	2°	5,827
G. M. Turner	D&RG	175	-	-	-	x	4	6	9%	13,698
A. E. Nix	-	25	-	-	-	x	4	6	6%	2,689
Sam Bellah	-	4	-	-	-	x	3	2	35°	122
G. E. Ralston	D&RG	1,500	S	T	R	I	P	8	10%	144,686
P. Pantazes	-	4	-	-	-	x	2	6	7°	833
Glenn Anglin	-	40	-	-	-	x	8	6	7°	2,051
Jos. E. Partch	-	75	-	-	-	x	6		3%	16,075
Jos. E. Partch	-	75	-	-	-	x	6		3%	3,143
M. R. Paterson	-	15	-	-	-	x	3	6	15%	2,780
Jose I. Valdez	-	20	-	-	-	x	6		3%	4,491
Eugene Lopez	-	6	-	-	-	x	5	10	2%	920
Eloy Montez	-	10	-	-	-	x	2	6	5%	907
Everett Bixler	-	15	-	-	-	x	4	6	6%	1,382
H. B. Phillips	-	35	-	-	-	x	5	6	12%	5,155

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
Pikes Peak Fuel	Colorado Spgs.	Pikeview	Pikeview	El Paso
Pinnacle Coal	Hayden	Rice	Same	Routt
Premium Coal	Florence	Caldirola #1	"	Fre.
Rapson Coal	Walsenburg	Rapson #2	"	Las A.
Red Ash Coal	"	Maitland #1	"	Huerf.
Red Ash Coal	Walsenburg	Maitland #2	Same	Huerf.
Red Glow Coal	Aguilar	Red Glow	"	Las A.
Rex Carbon Fuel	Florence	Rex Carbon	"	Fre.
Rifle Coal	Rifle	North Canyon	"	Garfield
Rugby Coal	Trinidad	Rugby #1	La Veta	Huerf.
Rugby Coal	Trinidad	Rugby #6	La Veta	Huerf.
Russell, W. E. Coal	Denver	Crown	Superior	Boulder
Sanchez, Ben	Boncarbo	Cash & Carry	Same	Las A.
Sarmiento Coal	Florence	Pine Gulch #2	"	Fre.
Scott-Ruiz Coal	Trinidad	Starkville #4	"	Las A.
Shamrock Coal	Denver	Shamrock	Erie	Weld
Skinner Coal	Walsenburg	Gordon	Same	Huerf.
Smith, A. G.	Gunnison	Baldwin	"	Gunn.
Smith, Irvin A.	Hesperus	King	"	La Plata
So. Blk. Diam. Coal&Oil	Trinidad	Franklin	Delagua	Las A.
Staples, S. L., Jr.	Gunnison	Ohio Creek #2	Same	Gunn.
States, Welland W.	Cedaredge	Top	"	Delta
Steele Bros.	Fruita	Farmers-Nearing"	"	Mesa
Strainer Coal	Canon City	Canon Wolf Crk.	"	Fre.
Sun Coal	Hayden	Sun	Same	Routt
Sunlight Coal	Glenwood Spgs.	Sunlight	"	Garf.
Supancic, Louis	Cameo	River View	"	Mesa
Taylor Coal Mining	Craig	Blue Streak	"	Rio B.

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		TONS
			Shaft	Rock	Rock/Drift		Ft-In/ Pitch % - °		
			Depth	Slope Length	Tunnel				
Robert Welch	D&RG	500	175	750	-	0	8	6½%	70,939
C. A. Bowerman	D&RG	35	-	-	-	x	10	17%	5,780
Juan Mata	-	20	-	-	-	x	3 6	3%	1,335
Adam Galli	C&S	40	-	2,200	-	0	5	12%	8,629
M. J. Judiscak	-	50	-	-	-	x	4 6	5%	3,948
M. J. Judiscak	-	30	-	-	-	x	3	5%	1,471
Wm. H. Smith	-	6	-	-	-	x	3 6	15%	350
J. M. Williams	-	70	-	450	-	0	3 10	12%	12,455
E. A. Haas	-	8	-	-	200	0	8 4	80°	1,223
C. S. Dawn	-	10	-	-	-	x	3 6	13°	264
C. S. Dawn	-	10	-	-	-	x	3 6	13°	1,055
Al Seip	-	175	-	238	-	0	7	1-30%	20,250
Ben Sanchez	-	2	-	-	-	x	5	-	15
D. E. Sarmiento	-	12	-	-	-	x	3	4°	1,907
W. C. Scott	-	14	-	-	-	x	3 10	-	1,791
F. L. Peart	UP	300	110	-	-	0	10 1	1°	6,515
Alfred Newman	D&RG	125	-	-	-	x	4	5%	11,661
A. G. Smith	-	15	-	-	-	x	6	5%	1,928
I. A. Smith	-	15	-	-	-	x	6	2°	3,550
Frank Coke	-	15	-	-	-	x	6	2%	1,573
S. L. Staples	-	8	-	-	-	x	5 6	5%	2,362
W. W. States	-	60	-	180	-	0	7	5°	3,281
R. Steele	-	5	-	-	-	x	6	5°	633
A. Strainer, Jr.	-	20	-	-	-	x	6 6	2%	3,098
Tom Barton	-	2	-	-	-	x	9	-	397
Joe M. Rogers	-	50	-	200	-	0	8 6	43°	5,483
L. Supancic	-	25	-	-	-	x	6	5%	4,302
Carl Tesitor	-	100	-	-	-	x	27	13%	6,891

COMPANY	ADDRESS	MINE	ADDRESS	COUNTY
<hr/>				
Thompson Creek Coal & Coke Corp.	Denver	Thomp. Crk. #1	Carbondale	Pitkin
Thompson Creek Coal & Coke Corp.	Denver	Thomp. Crk. #2	"	"
Tolley, C. A. & Eileen	New Castle	Harvey Gap	Same	Garfield
Tomahawk Coal	Delta	Tomahawk	Same	Delta
Vento Coal	Florence	Vento	"	Fre.
Victory Coal	Durango	Victory #1	"	LaP.
Victory Coal	"	Victory #2	"	" "
Vidmar, Charles	Palisade	Blue Flame	"	Mesa
White River Fuel	Rangely	White River	Same	Rio B.
Wilson, Glen E.	Cortez	Montezuma #2	"	Montez.
Wright, C. L.	Hesperus	Burnwell #2	"	La P.
Wright Fuel	"	Wright #2	"	" "
Zellitti, F., N., & C.	Durango	Morning Star	"	" "

Superintendent	R. R.	Daily Cap.	OPENINGS				SEAM		TONS
			Shaft	Rock	Rock/Drift	Ft-In/Pitch			
			Depth	Slope	Tunnel				
			Length			° - ′			
Andrew Allan	-	400	-	-	-	x	5	30 ⁰	86,752
Andrew Allan	-	22	-	-	-	x	5	30 ⁰	1,854
C. A. Tolley	-	30	-	-	-	x	6	45 ⁰	2,482
Gene Yellico	-	26	-	1,000	-	0	11	4%	4,594
Tony Vento	-	100	-	-	-	x	5	4%	14,735
Wm. Gerard	-	80	-	-	-	x	6	6%	14,120
Wm. Gerard	-	25	-	-	-	x	4	-	700
Chas. Vidmar	-	25	-	-	-	x	5	4%	2,104
M. E. Staley	-	80	-	-	-	x	8	8%	5,723
G. E. Wilson	-	15	-	-	75	0	4 6	2%	499
C. L. Wright	-	12	-	600	-	0	6 4	2%	5,756
C. L. Wright	-	25	-	600	-	0	5 10	4%	1,744
F. Zellitti	-	25	-	-	-	x	5 10	5%	2,119

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
ARCHULETA						
Bellino	Frank Bellino	1.3	35	76		
Columbine	LeRoy R. Crane	1.4	128	496		
Garcia	Simon B. Garcia&E. W. Mackey	2.0	15	28		
TOTALS - 3		4.7	178	600	-	-
BOULDER						
Black Diamond #2	Black Diamond Fuel	11.5	125	9,131		1
Crown	Wm. E. Russell Coal	20.3	164	20,250	1	
Hi-Way	Hi-Way Coal	25.0	27	3,940		
New Gorham	Leonard R. Conda	3.1	96	631		
TOTALS - 4		59.9	412	33,952	1	1
DELTA						
Blue Ribbon	Blue Ribbon Coal	2.6	175	4,943		
Green Valley #2	Ira T. Brooks	4.2	187	5,438		
King	Juanita Coal & Coke	28.0	101	19,847		
Paonia Farmers	Paonia Farmers Coal	2.8	143	2,051		
Red Canon #1	Lyndon H. Fogg	4.1	156	3,226		
Tomahawk	Tomahawk Coal	5.2	176	4,594		
Top	Welland W. States	3.6	190	3,281		
TOTALS - 7		50.5	1,128	43,380	-	-
EL PASO						
Franceville Strip	Franceville Coal	1.4	209	4,519		
Pikeview	Pikes Peak Fuel	29.2	285	70,939		3
TOTALS - 2		30.6	494	75,458	-	3

FREMONT

Annex

Beer Strip	Annex Coal	2.7	218	3,794		
Black Knight #2	Beer Coal & Construction	3.5	70	3,355		
Caldirola #1	Black Knight Coal	2.1	193	899		
Caldirola #2	Premium Coal	2.3	112	1,335		1
Canon Black Diamond	Caldirola Fuel	3.8	220	5,332		1
Canon Chief	Canon Black Diamond Coal	4.7	248	17,949		
Canon Liberty	Canon Chief Mining	5.9	236	8,663		
Canon National	Liberty Mining	3.7	194	5,429		
Canon Wolf Creek #2	Canon National Coal	5.0	240	18,664		
Canon Zenith #2	Strainer Coal	4.9	224	3,098		
Cedar Canon	Canon Zenith Coal	2.8	146	1,770		
Chandler #2	Giuliano & Sons Coal	6.5	222	14,333		2
Chandler Creek	Chandler Coal	4.7	109	1,654		1
Coal Creek Canon	Chandler Creek Coal	5.4	151	3,349		
Corley #6	Coal Creek Canon Mining	4.0	145	4,857		
Double Dick	The Corley Co.	10.3	229	24,243		1
Golden Quality #3	Double Dick Coal	6.0	236	11,889		
Hi-Grade	Golden Quality Coal	4.3	173	3,430		
L. & C. #2	Hi-Grade Coal	2.7	93	964	1	
Pine Gulch #2	Lovisone & Colarelli	4.9	139	3,620		
Pine Gulch #3	Sarmiento Coal	3.3	200	1,907		
Pioneer Strip	Canon Monarch Coal	3.3	119	1,872		
Rex Carbon	The Corley Co.	3.9	229	11,354		2
Vento	Rex Carbon Fuel	8.8	213	12,455		1
	Vento Coal	7.1	241	14,735		
TOTALS - 25		116.6	4,600	180,950	1	10

GARFIELD

Atlas #2	Henry Bendetti	1.0	37	83		
Harvey Gap	C. A. & Eileen Tolley	2.8	218	2,482		
I. H. I. #2	Haas Coal	5.1	244	8,774		
I. H. I. #3	Haas Coal	4.7	247	9,045		3

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
GARFIELD (Cont.)	Marion Coal	2.3	261	1,350		
	New Castle Clsd.	5.0	25	1,509		
	North Canyon	2.8	160	1,223		
	Sunlight	7.4	204	5,483		
	TOTALS - 8	31.1	1,396	29,949	-	3
GUNNISON	A. G. Smith	2.8	207	1,928		
	Bear Coal	49.1	118	48,066		2
	Ellis Coal	7.7	187	9,261		3
	Clark Coal	13.5	114	12,529		
	Champion Coal Mining	26.0	168	50,140		
	Hinkle Coal	2.1	81	446		
	Horace Anth. Miners Assoc.	2.0	123	434		
	North Fork Coal	2.0	4	75		
	Partch Brothers	16.4	190	16,075		
	Partch Brothers	6.0	93	3,143		1
	S. L. Staples, Jr.	2.6	236	2,362		1
	Minerals Development Corp.	46.6	38	12,829		3
	Minerals Development Corp.	25.0	94	22,801		8
	Minerals Development Corp.	71.1	125	88,198		
	TOTALS - 13	272.9	1,778	268,287	-	18
HUERFANO	Black Beauty	3.0	200	1,466		
	Blue Blaze	4.5	64	1,876		
	Caddell #2	2.4	146	500		
	Calumet #2	17.9	246	15,870		
	George (Occidental)	1.0	127	155		

Gordon	Skinner Coal	7.6	231	11,661	1
Leader #2	Leader Coal	2.2	228	1,996	1
Maitland #1	Red Ash Coal	6.1	179	3,948	
Maitland #2	Red Ash Coal	5.6	73	1,471	
Major #2	Major Coal	4.2	113	3,081	1
Morning Glory	Minnequa Fuel/Morn. Glory Coal	14.6	199	13,698	
Ojo Canon #2	Ojo Canon Coal	4.0	44	122	
Peaks	Peaks Coal	2.8	167	907	
Rugby #1	Rugby Coal	3.5	36	264	1
Rugby #6	Rugby Coal	4.9	136	1,055	
TOTALS - 15		84.3	2,189	58,070	4
JACKSON					
Marr	George M. Barnell	3.0	249	2,267	1
TOTALS - 1		3.0	249	2,267	1
LA PLATA					
Blue Flame	Vernon Cason	2.2	261	2,576	
Burnwell #2	C.L. Wright	5.9	202	5,756	
Coal King #2	J.B. Henderson	1.7	122	682	
Hay Gulch #2	Hay Gulch Coal	2.2	211	1,439	
Hesperus #3	Hesperus Coal	3.5	18	104	
King	Irvin A. Smith	3.0	205	3,550	
La Plata	Lester Hightchew	1.0	16	50	
Minoletti	Minoletti Brothers	4.0	136	3,368	
Morning Star	F., N., & C. Zellitti	2.1	196	2,119	
Peacock	Peacock Coal	2.8	260	4,491	
Peerless	Peerless Coal	2.3	114	1,382	
Victory #1 & #2	Victory Coal	10.0	246	14,820	
Wright #2	Wright Fuel	2.5	85	1,744	
TOTALS - 13		43.2	2,072	42,081	-

COUNTY MINE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
LAS ANIMAS						
Aguilar Imperial	Robert Fabec	3.1	182	1,616		
Allen (2 Portals)	C. F. & I. Corp.	376.7	156	396,994		6
Anchor #2	Carbon Fuel	4.0	95	917		
Baldy	Baldy Coal	9.8	211	7,603		1
Bear Canon #6	Bear Canon Coal	9.0	8	104		
Berwind Canon	Berwind Canon Coal	4.1	115	1,670		1
Bisulco	Alex Bisulco	3.7	69	411		
Brodhead #2	Brodhead Coal	5.1	238	3,021		
Burro Canyon #3	Leo Franklin	2.0	12	39		
Cash & Carry	Ben Sanchez	1.0	10	15		
Delagua #3½	Manuel Montez	2.5	36	102		
Engleville	Guadagnoli Brothers	2.9	224	2,780		
Franklin	So.Black Diam. Coal & Oil	4.8	111	1,573		
Frederick	C. F. & I. Corp.	597.8	156	312,943		5
Gem	Giuliano Coal	3.8	171	1,765		
Grey Creek #6	Morasky Coal & Blocks	6.5	242	5,827		1
Little Al's	Albert Iuppa, Jr.	1.3	26	68		
Martinez	A. Martinez & O.B. Garcia	2.0	4	12		
Melonas	Berwind Mining	3.0	9	53		
Morley	C. F. & I. Corp.	202.2	154	124,612	1	4
New Primrose	Alex Bisulco	1.3	16	72		1
Peacock	Peacock Coal	2.6	192	920		
Prosperity #2	Pete Pantazes	2.0	287	833		
Rapson #2	Taylor Coal Mng/Rapson Coal	9.1	163	8,629		
Red Glow	Red Glow Coal	3.0	130	350		
Starkville #4	Scott-Ruiz Coal/A. Iuppa C.	5.6	127	1,791		
Starkville #7	Nick Ciminio	4.1	98	578		
TOTALS - 27		1273.0	3,242	875,298	1	19

<u>MESA</u>						
Blue Flame	Charles Vidmar	2.3	202	2,104		
Cameo	Kerr Coal	13.8	168	17,581		
Farmers - Nearing	Steele Brothers	2.0	113	633		
Gearhart	H. B. Phillips	9.5	200	5,155		
Hidden Treasure	Ernest Hicks	1.8	141	2,137		
Hunter	Claud O. Halcumb	2.3	106	804		
Hy-Grade	Mack R. Paterson	3.3	232	2,780		
McGinley	Eagle Head Coal	2.6	229	2,891		
River View	Louis Supancic	4.4	190	4,302		
Winger	Clarke Coal	2.0	99	563		
TOTALS - 10		44.0	1,680	38,950	-	-
<u>MOFFAT</u>						
Red Wing	Colowyo Coal	27.2	150	85,683		
TOTALS - 1		27.2	150	85,683	-	-
<u>MONTEZUMA</u>						
Montezuma #2	Glen E. Wilson	2.4	127	499		
TOTALS - 1		2.4	127	499	-	-
<u>MONTROSE</u>						
Independence	Ammon E. Nix	3.3	231	2,689		
TOTALS - 1		3.3	231	2,689	-	-
<u>PITKIN</u>						
Thompson Creek #1	Thompson Ck. Coal&Coke Corp.	52.8	240	86,752		5
Thompson Creek #2	Thompson Ck. Coal&Coke Corp.	4.2	84	1,854		
TOTALS -2		57.0	324	88,606	-	5
<u>RIO BLANCO</u>						
Blue Streak	Taylor Coal Mining	3.9	129	6,891		
Rienau	Jenkins & Mathis Coal	3.3	242	5,925		
White River	White River Fuel	3.9	146	5,723		
TOTALS - 3		11.1	517	18,539	-	-

COUNTY MINE ROUTE	COMPANY OR OPERATOR	No. Men Average	Total Days	TONNAGE	ACCIDENTS	
					Fatal	Non-Fat.
Apex	Boscia Coal	1.2	189	1,046		
Arrowhead-(Moffat#3)	Arrowhead Coal - 2 Mo.	75.5	12	5,247		
Block #2	Block Coal	2.0	67	212		
Commander Strip	The Commander	7.0	31	400		
Crow Bar	Dry Creek Coal	20.8	124	24,110		1
Edna Strip	Edna Coal	42.8	101	127,970		
Frank's	Frank Jakovac	1.0	22	110		
Harris	Colo. & Utah Coal	101.4	81	86,698		4
Johnnie's	John Mathews	1.7	208	496		
Keystone	Dunn Coal	63.2	111	45,959		2
Moffat A (Arrowhead)	Dunn Coal - 2 Mo.	32.0	11	2,050		1
Moffat B Strip	Dunn Coal	3.5	10	1,836		
Osage Strip	Osage Coal	33.5	105	144,686		
Rice	Pinnacle Coal	3.9	165	5,780		
Seven Point Strip	Dunn Coal	3.6	17	3,149		
Sun	Sun Coal	1.0	139	397		
TOTALS - 15		394.1	1,393	450,146	-	8
SAN MIGUEL						
Keck-Reliance	W. R. Keck	1.0	50	56		
TOTALS - 1		1.0	50	56	-	-
WELD						
Bldr. Val. #3&Baum	Boulder Valley Coal	62.8	187	102,953		3
Eagle	Imperial Coal	89.2	216	224,437		
Graden	Graden Coal	18.9	157	21,057		1
Imperial	Imperial Coal	44.0	34	17,945		2
Lincoln	Clayton Coal	36.3	164	54,739		

WELD (Cont.) <u>Shamrock</u> Sterling Washington	Shamrock Coal McNeil Coal Corp. Clayton Coal	6.4 38.7 71.8 368.1	56 156 191 1,161	6,515 55,710 143,549 626,905	-	4 4 14
TOTALS - 8						
GRAND TOTALS		2878.0	23,371	2,922,365	3	86

COAL SHIPMENT AND DISPOSAL

COUNTY	RAILROAD	TRUCK OR WAGON	POWER & HEAT	OUT OF STATE	CHEM. TREATED
Archuleta		600			
Boulder	1,980	31,852	120		1,872
Delta	19,467	23,012	901	1,470	2,738
El Paso	3,227	53,204	19,027		
Fremont	9,850	171,000	100	4,755	50
Garfield		29,949			450
Gunnison	203,936	62,283	2,068	105,672	33,265
Huerfano	23,362	34,708		13,979	2,599
Jackson		2,267			
La Plata	11,320	30,736	25		
Las Animas	831,225	34,331	9,742	391	
Mesa	6,954	31,896	100		2,096
Moffat	73,732	11,951		30,191	36,928
Montezuma		499			
Montrose		2,679	10		127
Pitkin	88,606			88,606	
Rio Blanco	3,691	14,845	3	6,500	5,958
Routt	403,064	40,944	6,138	117,357	73,298
San Miguel		44	12		
Weld	332,002	290,725	4,178	200	19,484
TOTALS	2,012,416	867,525	42,424	369,121	178,865

SIZES, GRADES, BY COUNTY

MINE RUN	LUMP	EGG	OTHER GRADES	NUT	PEA	SLACK
104	388				49	59
	2,776	9,723	208	2,275	3,428	15,542
1,061	18,180		1,044	6,337	312	16,446
4,002	2,461	13,639		12,051	76	43,229
82,573	21,031	48	1,689	13,698	4,657	57,254
1,590	2,836		259	576		24,688
113,974	36,582	24	1,635	14,700	65	101,307
1,840	12,779	9,056	1,200	8,349	22	24,824
2,267						
28,526	5,664	91		297	11	7,492
11,375	9,272	1,020	612	2,372	404	850,243
4,557	6,223		2,159	3,468	354	22,189
	17,911			12,256		55,516
	224					275
1,472	881			117		219
88,606						
	4,339	1,609	311	2,398		9,882
8,750	65,538	43,440	51,458	42,599	62,874	175,487
56						
415	47,877	94,846	8,068	7,275	14,780	453,644
351,168	254,962	173,496	68,643	128,768	87,032	1,858,296

MECHANICAL LOADING

COUNTY	Shaker Type	MECHANICAL LOADERS							Small Portable Conveyors	TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor)
		Chain Conveyors		Mainline		Mobile		Power Shovel		
		Short Face	Room Length	Belt	Chain	Track	Caterpillar			
Archuleta										
Boulder	15									13,071
Delta	2					1				24,441
El Paso	1						2			70,939
Fremont	20	3	10		1		5		1	113,729
Garfield	2				1					
Gunnison	14		1	3			8			224,652
Huerfano	14		4		1					16,957
Jackson										
La Plata	2									14,120
Las Animas	46		7	7	4		7	1		396,994
Mesa	13	1							1	22,498
Moffat	3						1			85,683
Montezuma										
Montrose										
Pitkin									2	
Rio Blanco	2	2	1				5			17,946
Routt	40	3	4		5					116,086
San Miguel										
Weld	12			1			15		7	446,385
TOTALS	186	9	27	11	12	1	43	1	11	1,563,501

COLORADO - 1954

TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES	MINING MACHINERY							TOTAL TONNAGE
	Undercutting	Electric Shearing	Combination Undercutting and Electric Shearing	Electric Drills	Compressed Air Cutting Machines	Compressed Air Drills	Continuous Miners	
				1				600
20,881	17			20				33,952
4,943	7		2	10				43,380
	4			6				75,458
50,278	39			39				180,950
1,000	2			14				29,949
27,989	31		2	30		1		268,287
17,124	36			17				58,070
	1			1				2,267
	10	1		8				42,081
48,373	51		6	42		80		875,298
12,124	16	1		11				38,950
	3			8				85,683
								499
	1			2				2,689
86,752								88,606
593	4			5				18,539
48,190	58			54				450,146
	1							56
	52	1	1	67			5	626,905
318,247	333	3	11	335	-	81	5	2,922,365

Continuous Miners, Weld County only - 180,520

FATAL ACCIDENTS

Date	Name	Mine	County	Cause	Occupation	Age	Exp.
6-3	J. R. Ramirez	Hi-Grade	Fre.	Roof fall	Superintendent	45	27
9-28	Jose Romero	Morley	Las A.	Roof fall	Miner	22	2½
11-16	A. Spensieri	Crown	Bould.	Roof fall	Machine operator	59	39

FIVE YEAR COMPARISON

NON-FATALS

1950	1951	1952	1953	1954	Causes of Injury	1950	1951	1952	1953	1954
40	47	28	27	17	Falls of roof	6	2	3	2	3
27	19	16	12	5	Fall of face or rib	1	1			
14	11	11	7	7	Falling objects					
11	10	9	4	3	Falls of persons					
22	21	20	9	19	Handling materials					
6	11	11	10	4	Hand tools					
6	2	1	3	2	Striking vs objects					
29	34	29	21	11	Haulage	1	1	1	1	
-	-	-	-	2	Explosions of gas					
-	1	4	2	3	Explosives					
2	4	1	2	4	Electricity	1				
20	29	14	17	7	Machinery			1		
11	6	8	6	1	Jack pipes					
1	1	2	1	-	R. R. cars					
1	1	3	-	1	Others	1				
190	197	157	121	86	Totals	10	4	5	3	3

ACCIDENT STATISTICS

	Fatalities		Non-fatals	
	1954	1953	1954	1953
Fatalities	3	3		
Non-fatals/Compensable			86	121
Per 1, 000 employed	1. 04	0. 89	29. 88	36. 01
Men employed per injury	959	1, 119. 7	33. 47	27. 76
Tonnage per injury	974, 122	1, 199, 622	33, 980. 9	29, 742. 7
Per million tons	1. 02	0. 88	29. 42	33. 62
Dependents: Widows	3	3		
Children	11	5		

COAL PRODUCTION FROM 1873 THROUGH 1954

<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>	<u>Year</u>	<u>Tonnage</u>
1873	69,977	1900	5,495,734	1927	9,781,580
1874	87,372	1901	6,021,405	1928	9,921,585
1875	98,838	1902	7,522,923	1929	9,934,064
1876	117,666	1903	7,775,302	1930	8,238,094
1877	160,000	1904	6,776,551	1931	6,604,063
1878	200,630	1905	8,989,631	1932	6,616,525
1879	322,732	1906	10,308,421	1933	5,284,872
1880	375,000	1907	10,965,640	1934	5,251,003
1881	706,744	1908	9,773,007	1935	5,953,601
1882	1,161,479	1909	10,722,490	1936	6,868,801
1883	1,220,593	1910	12,104,887	1937	7,222,092
1884	1,130,024	1911	10,197,595	1938	5,730,291
1885	1,398,796	1912	11,016,948	1938	6,002,125
1886	1,436,211	1913	9,268,939	1940	6,673,359
1887	1,791,735	1914	8,201,423	1941	7,008,037
1888	2,185,477	1915	8,715,397	1942	8,131,764
1889	2,400,629	1916	10,522,185	1943	8,372,683
1890	3,075,781	1917	12,515,305	1944	8,202,401
1891	3,512,632	1918	12,658,055	1945	7,656,612
1892	3,771,234	1919	10,406,543	1946	5,928,823
1893	3,947,056	1920	12,514,693	1947	6,381,016
1894	3,021,028	1921	9,141,947	1948	5,682,512
1895	3,339,495	1922	10,003,610	1949	4,578,170
1896	3,371,633	1923	10,336,735	1950	4,274,887
1897	3,565,660	1924	10,501,088	1951	4,111,945
1898	4,174,037	1925	10,440,387	1952	3,643,523
1899	4,826,939	1926	10,616,760	1953	3,598,867
				1954	2,922,365



Your attention is called to the splendid work by the State Multigraph Department in the printing of this Annual Report.







